

# SD5, SD6

Ultrasonic TableTop Doppler  
Version 1.0

## Data Sheet



Physical Specifications	Main Unit	Dimensions(D×W×H) 265mm×155mm×180mm Weight 1.7kg (including the battery and probe)
	Probe	Dimensions(D×W×H) 140mm×40mm×32mm Wireless Probe Weight <140g (with battery) Wired Probe Weight <100g
	Charge Stand	Dimensions(D×W×H) 96mm×93mm×100mm Weight <200g
	Display	Effective display area(W×H) 62.0mm×44.0mm Number of Characters 128×64 Dots Dot Size(W×H) 0.39mm×0.55mm Dot Pitch(W×H) 0.44 mm×0.60mm Two Brightness Adjustable
Power Supply	Main Unit	Operating Voltage 100V-240V~ Operating Frequency 50Hz/60Hz Input Power 35VA Battery 7.2V/2000mAh (Ni-MH Battery) Necessary Charge Time ≤5hours (the main unit is in the stand-by or switch off state) Expected Battery Life ≥8hours (the new battery is fully charged before use, and the fetal heart sound at 1 meter right ahead of the main unit speaker is higher than 80dB) Circle Life ≥300times Storage Temperature -20°C ~ +60°C (-4°F ~ +140°F) (1 month) or -20°C ~ +40°C (-4°F ~ +104°F) (3 months)
	Probe	Battery 3.7V/800mAh (Lithium Battery) Necessary Charge Time ≤5hours (the probe is in the switch off state) Expected Battery Life ≥3hours (the new battery is fully charged before use) Circle Life ≥300times Storage Temperature -20°C ~ +60°C (-4°F ~ +140°F) (1 month) or -20°C ~ +40°C (-4°F ~ +104°F) (3 months)
Audio Output	Output Power	3W
	Static Noise	<45dBA
	Overall Sensitivity	>120dB
FHR	Operating Mode	CW
	Working Frequency	(2±10%)MHz/(3±10%)MHz
	Nominal Frequency	2MHz/3MHz
	2MHz/3MHz Probe	p- <1MPa I <sub>ob</sub> <20mW/cm <sup>2</sup> I <sub>spta</sub> <100mW/cm <sup>2</sup> I <sub>sata</sub> <20mW/cm <sup>2</sup> W <sub>0</sub> < 50mW
	Effective Radiating Area of Transducer	(245±15%)mm <sup>2</sup>

	FHR Measurement Range	50bpm ~ 240bpm	
	Resolution	1bpm	
	Accuracy	±2bpm	
	Sensitivity	9 Weeks Gestation (3MHz)	
	Earth Leakage Current (Limit)	N.C. 500µA	S.F.C. 1000µA
	Enclosure Leakage Current (Limit)	N.C. 100µA	S.F.C. 500µA
	Patient Leakage Current (Limit)	N.C. d.c. 10µA a.c. 10µA	S.F.C. 50µA 50µA
	Patient Auxiliary Current (Limit)	N.C. d.c. 10µA a.c. 10µA	S.F.C. 50µA 50µA
<b>Bluetooth Transmission Range</b>	>5m (the indoor distance depends on the building structure and material)		
<b>Recording and Playing</b>	Audio Sampling Frequency	4 kHz	
	Recording Length	240 seconds	
<b>Auto Power-off</b>	1/3 minute after no signal or operation, auto shut down.		
<b>Coupling Gel</b>	pH	5.5 ~ 8.0	
	Acoustic Impedance	1.5x10 <sup>6</sup> Pa.s/m ~ 1.7x10 <sup>6</sup> Pa.s/m (35°C/95°F)	
<b>Safety Specifications</b>	Standards Compliance	IEC 60601-1:2005/A1:2012, EN 60601-1:2006/A1: 2013, IEC 60601-1-2:2014, EN 60601-1-2:2015, IEC60601-2-37:2007+A1:2015, EN 60601-2-37: 2008/ A1: 2015	
	Anti-electric Shock Type	Class I equipment with internal power supply	
	Anti-electric Shock Degree	Type BF equipment	
	Degree of Protection against Harmful Ingress of Water	Main Unit Ordinary Equipment (Sealed equipment without liquid proof) Probes IPX4	
	Degree of Safety in Presence of Flammable Gases	Equipment not suitable for use in presence of flammable gases	
	EMC	CISPR11 Group 1 Class A	
	Working System	Continuous Operation	
	<b>Environmental Specifications</b>	Temperature	Working 0°C ~ +40°C (+32°F ~ +104°F) Transport and Storage -20°C ~ +55°C (-4°F ~ +131°F)
Relative Humidity		Working 15% ~ 95% (non-condensing) Transport and Storage 15% ~ 95% (non-condensing)	
Atmospheric Pressure		Working 86kPa ~ 106kPa Transport and Storage 70kPa ~ 106kPa	



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